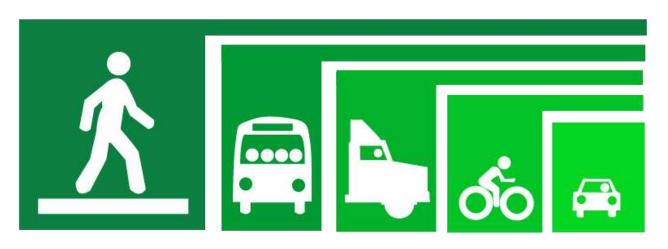
Poʻipū Road A Vision for the Corridor

Training & Community Design Workshop Kaua'i, HI



CONTENTS

1.	Poʻipū Community Design Workshop		3
11.	Overarching Improvements		23
	1	ADDRESS Design, Posted & Target Speed	
	2	NARROW Travel Lanes	30
	3	BUILD Additional Roundabouts	33
	4	ADD Medians	48
	5	EHANCE Crossings	53
	6	COMPLETE Pedestrian & Bicycle Paths & Systems	64
	7	ADDRESS Parking	72
	8	IMPROVE Connectivity	78
III.	III. Next Steps		
IV. Acknowledgements			86

I. Poipu Community Design Workshop

What is a Community Design Workshop?

Meet the Team























Poʻipū Road A Vision for the Corridor

Meet the Team





















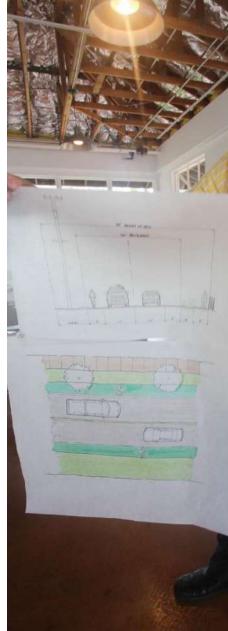
Design Team



















Focus Group Meetings













Poʻipū Beach Resort Association

Focus Group Meetings









Kōloa School & Community Association

Focus Group Meetings







Hawaiian Cultural Group

Poʻipū Road A Vision for the Corridor

Focus Group Meetings









10

Poʻipū Road A Vision for the Corridor

Walking Audit









|]

Poʻipū Shopping Center towards Hyatt

Walking Audit





Poʻipū Road from Kōloa Road to Roundabou

Opening Workshop









Poʻipū Road A Vision for the Corridor

Identifying Values









Identifying Values



Opening Workshop





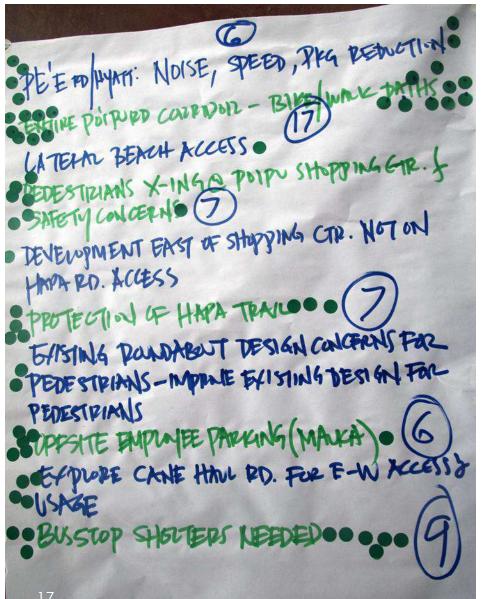








Identifying Priorities



Bypass Road between 6 Found-about-mediam. · marka-makar access waiohi - poipu Kai -Kound about Kighung Plantation drive & Poipu Boad (11) ·25 MPH- (10WER SPEED) ... · more connectivity along toipu Road Hound about @ Pie 12 Paipu Rds along Poipu Road Tound-abouts

Top Priorities

- BUILD Additional Roundabouts along Po'ipū Road
 - Roundabout at Pee & Po'ipū Road
 - Roundabout at Kiahuna Plantation Drive & Poʻipū Road
- COMPLETE Walk/Bike Paths along Both Sides of Poipu Road
- ENHANCE Bus Stop Shelters
- Manage Parking along Po'ipū Road
- ADDRESS, IMPROVE, & ENHANCE Pedestrian Crossings
- PROTECT Hapa Trail
- IMPROVE Connectivity

Community Design Workshop









Closing Workshop



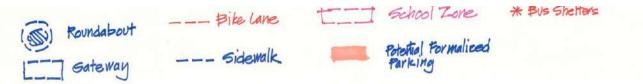








Map of Po'ipū





Map of Po'ipū





(Roundabout



Intersection/Crossing Enhancements











II. Overarching Improvements

- 1 ADDRESS Design, Posted & Target Speed
- 2 NARROW Travel Lanes
- 3 BUILD Additional Roundabouts
- **4** ADD Medians
- **5** ENHANCE Mid-block Crossings
- 6 COMPLETE Pedestrian & Bicycle Paths & Systems
- 7 ADDRESS Parking
- 8 IMPROVE Connectivity

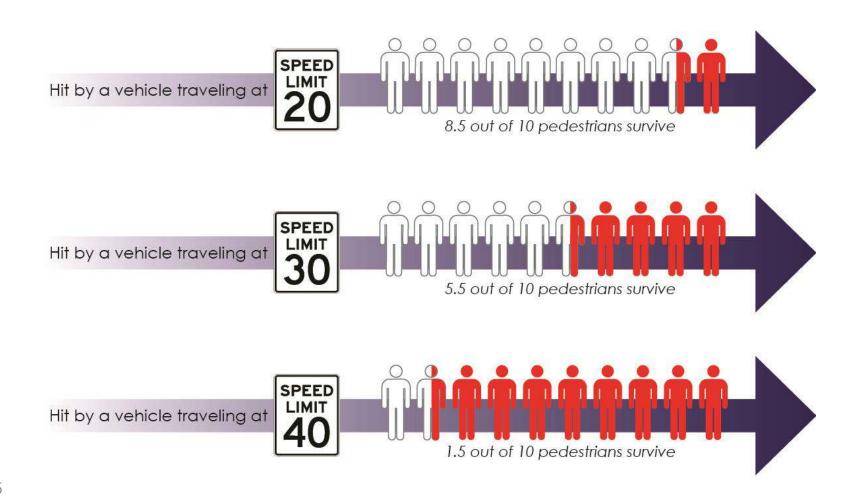
Principle

Solution



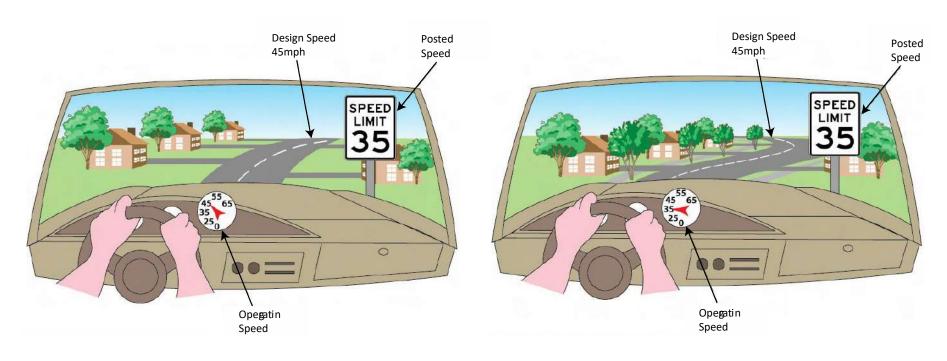
Principle

Solution



Principle

Solution



Conventional Design

Designing for Desired Operating Speed

Principle

Solution

1 ADDRESS Design, Posted & Target Speed



The design of this roadway is consistent with the target speed desired. Note the treatments utilized:

- Sight distance
- Street trees
- Lane Widths

- Access density
- Median

On-street Parking

Principle

Solution



Example: Nord Avenue, Chico, CA

Principle

Solution



Example: Nord Avenue, Chico, CA

Principle

Solution



Example: Nord Avenue, Chico, CA

Principle

Solution



Example: Nord Avenue, Chico, CA

Principle

Solution



Example: Nord Avenue, Chico, CA

Principle

Solution

1 ADDRESS Design, Posted & Target Speed



Example: Nord Avenue, Chico, CA

Principle

Solution



Principle

Solution



Principle

Solution



Poʻipū Road A Vision for the Corridor

Existing Condition

Principle

Solution



Poʻipū Road A Vision for the Corridor

Existing Condition

Principle

Solution



Principle

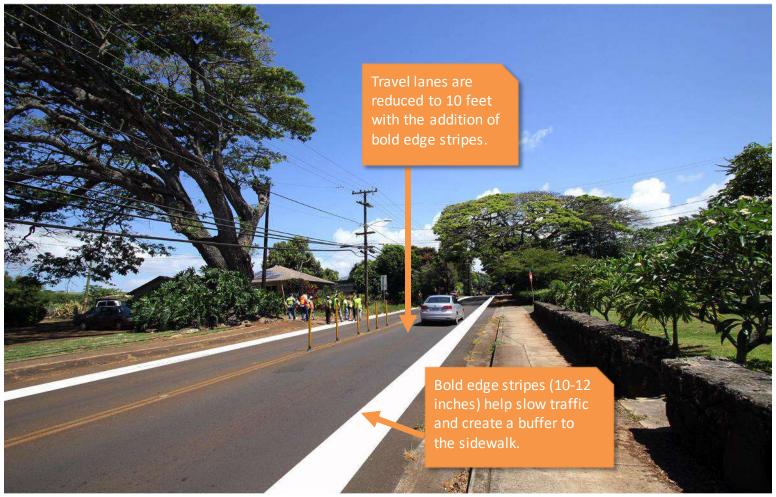
Solution



Travel Lanes are Wide

Principle

Solution



Principle

Solution

2



Use Bold Edge Stripes

Principle

Solution





Use Bold Edge Stripes

Principle

Solution



Complex Intersection at Po'ipū Road & Kōloa Road

Principle

Solution

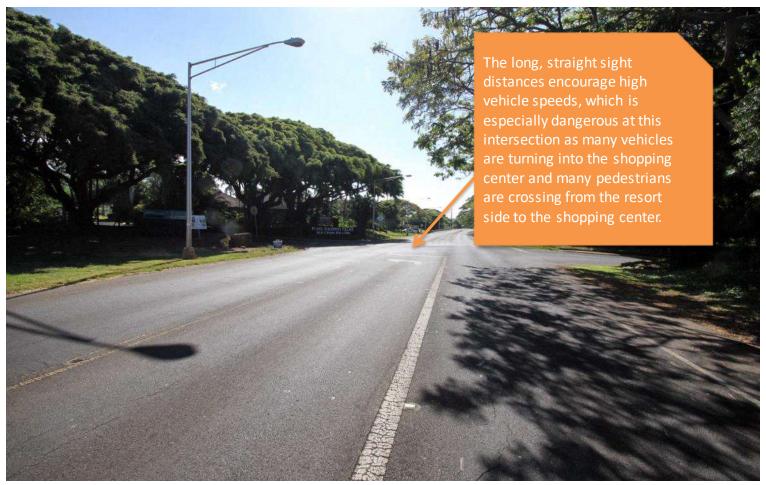
3 BUILD Additional Roundabouts



Missing Pedestrian Crossings at the Roundabout on Po'ipū Road

Principle

Solution



Complex Intersection at Po'ipū Road & Po'ipū Shopping Village

Principle

Solution



Complex Intersection at Po'ipū Road & Koa Kea Hotel

Principle

Solution

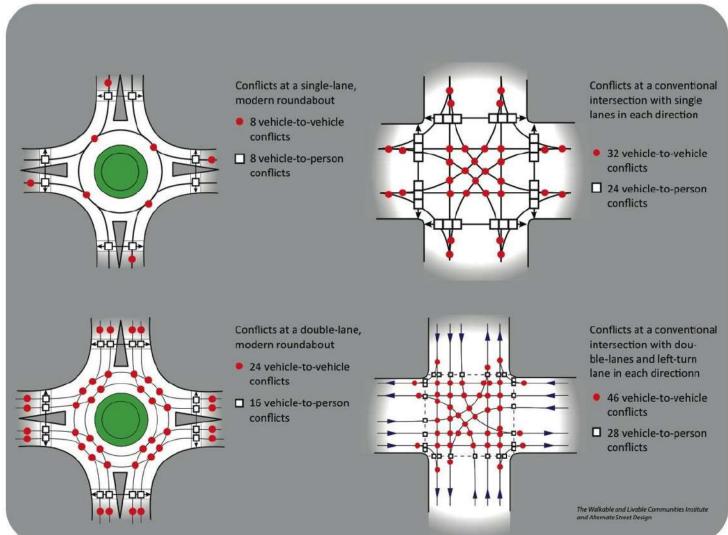


Complex Intersection at Po'ipū Road & Ala Kinoikii

Principle

Solution





Principle

Solution



BUILD Additional Roundabouts

Studies show that roundabouts provide:

- 90% reduction in fatal crashes
- 75% reduction in injury crashes
- 30-40% reduction in pedestrian crashes
- 10% reduction in bicycle crashes

Increased capacity & reduced delay:

- 30-50% increase in traffic capacity
- Because drivers can take advantage of any gaps in traffic flow, there is less of erall delay

- No signal equipment to install, repair and rebuild, which has a saving of \$13,000 to \$20,000 per year for every signalized intersection
- When storms or human error cause power outages, roundabouts still function

Environmental benefits:

- There is a reduction in pollution and fuel use
- There is less noise due to fewer stops and starts

Aesthetics:

 Roundabouts improve the visual quality and character through landscaping, sculptures and other celebrate place

Vehicle speeds (under 25mph):

- Drivers have more time to judge and react to other vehicles and pedestrians
- Conditions are easier for older and novice drivers
- Businesses have more exposure
- There is a reduction in the severity of accidents if they do occur
- All modes are safer and integrate better
- A gateway is formed which establishes place and provides traffic calming henefits

Principle

Solution







Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution





Principle

Solution



Principle

Solution



Principle

Solution



Vision for a Roundabout at the Intersection of Poʻipū Road & Ala Kinoikii

Principle

Solution



Principle

Solution



Principle

Solution

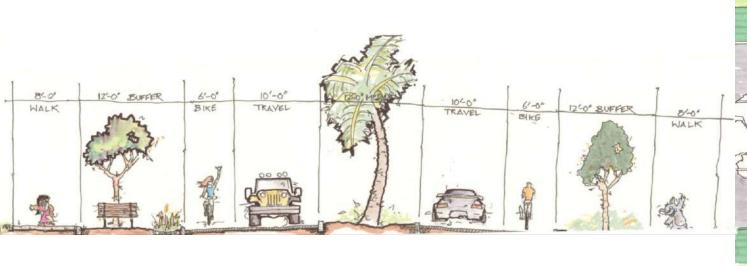


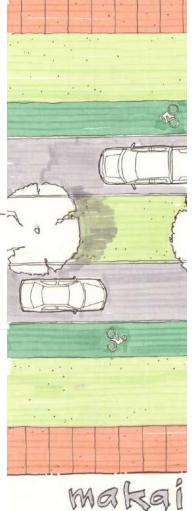
Short Medians

Principle

Solution







Create Landscaped Medians

Principle

Solution



Tree-lined Median

Principle

Solution



Principle

Solution

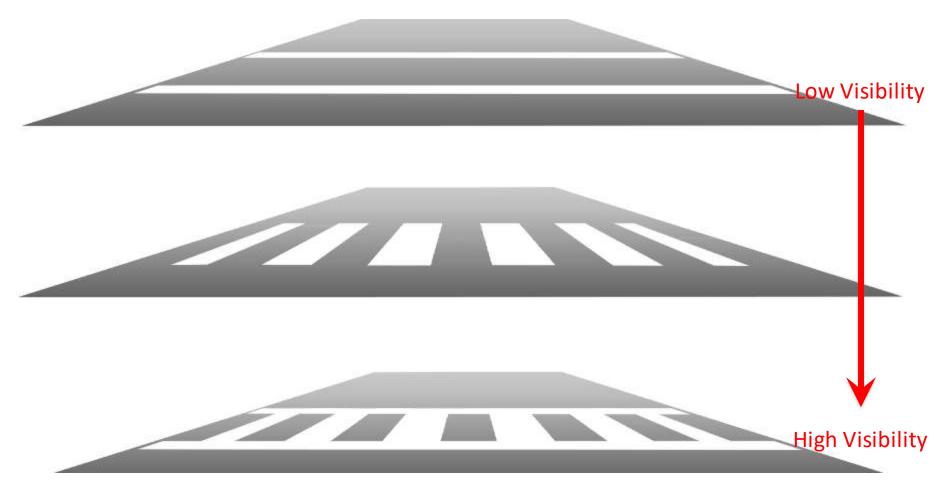




Principle

Solution





Principle

Solution



Best Practice: El Cajon, CA

Principle

Solution

5 IMPROVE Crossings



Rectangular Rapid Flash Beacons (RRFB)

Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution



Enhanced Midblock Crossing in Honolulu, HI

Principle

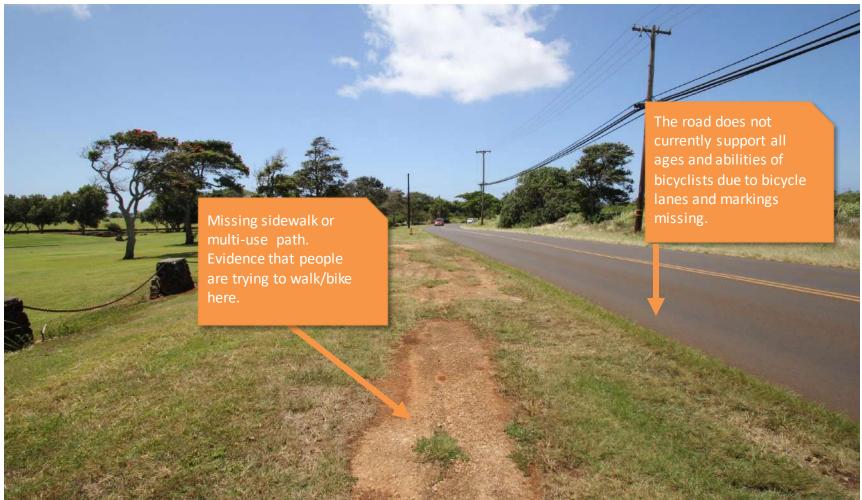
Solution



Create a Midblock Crossing at the Intersection of Poʻipū Rd & Kipuka Rd

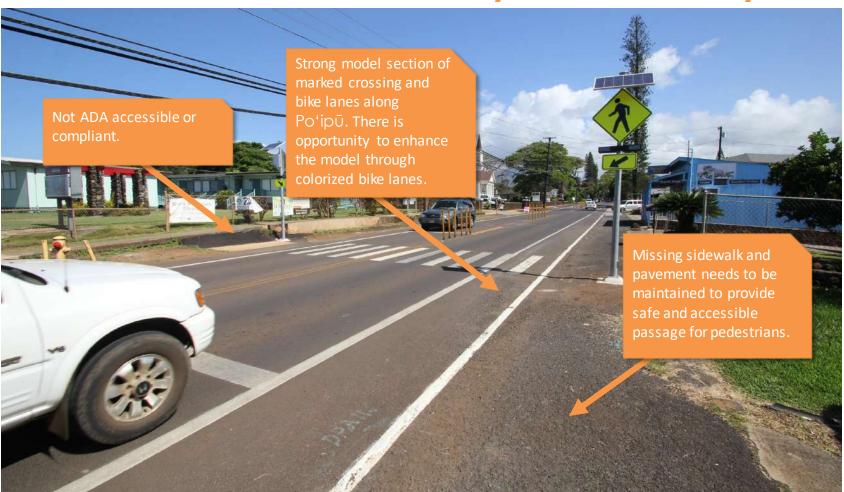
Principle

Solution



Principle

Solution



Principle

Solution



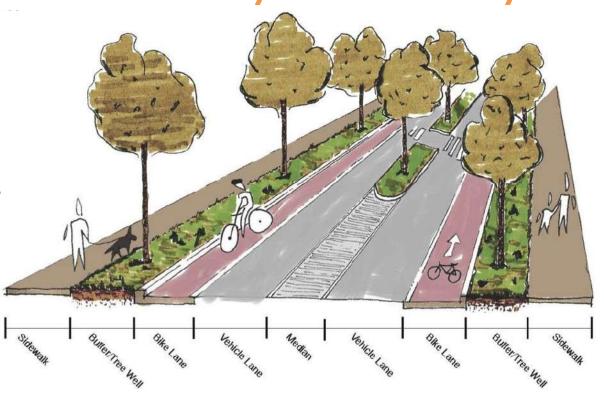


Principle

Solution



A Complete Street is a street designed for safe, comfortable and convenient travel for all users, whether they choose to travel by car, bicycle, public transportation, or on foot.



Trees:

Tall trees of a species appropriate for the area are spaced 15 to 25 feet apart. The vertical wall helps calm traffic and encourages lower vehicle speeds.

Buffer:

If the buffer includes trees, they should be set back from the curb at least four feet and the total buffer should be at least six feet.

Bike lane:

To function well, bike lanes should be at least six feet wide.

Wide stripes:

Mark bike lanes with thermoplastic stripes eight to twelve inches wide.

Median widths:

Medians typically are six to eight feet wide, but can vary to allow for landscaping, maintenance and adequate "refuge" for pedestrians crossing.

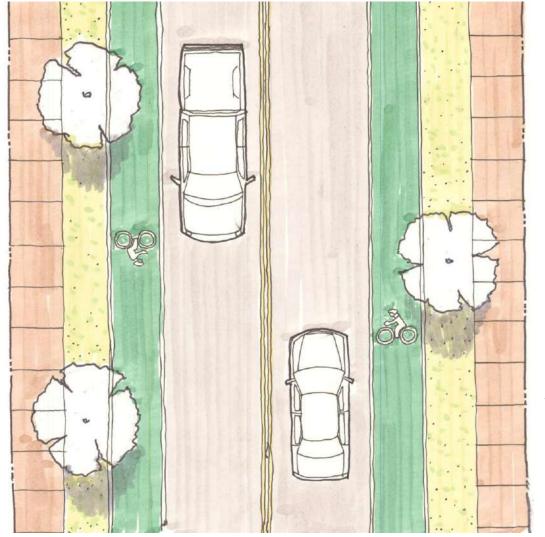
Vehicle lanes:

Lane width analysis indicates that narrower lanes are associated with lower crash frequencies. Ten foot travel lanes reinforce a 25-35 mph design speed.

Principle

Solution

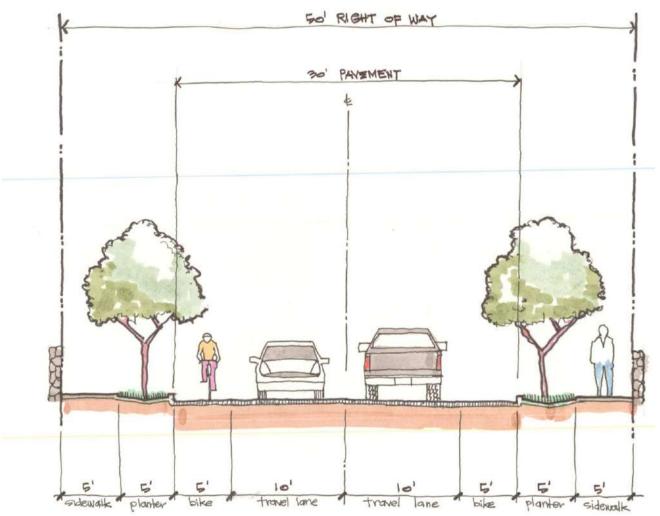
6 COMPLETE Pedestrian & Bicycle Paths & Systems



Create Colorized Bike Lanes and Sidewalks along Poʻipū Road from Kōloa Town to the Roundabout

Principle

Solution



Principle

Solution



Principle

Solution



Paint Colorized Bike Lanes

Principle

Solution



Paint Colorized Bike Lanes & Pave Pedestrian Path

Principle

Solution



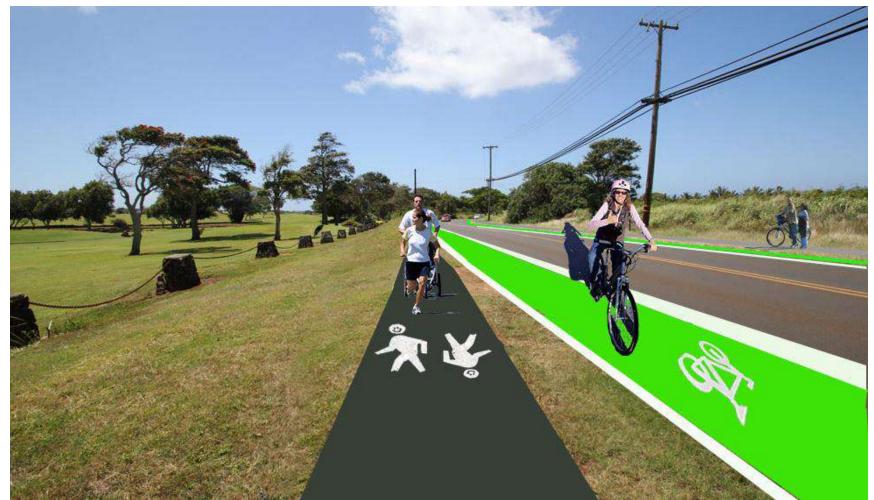
Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution

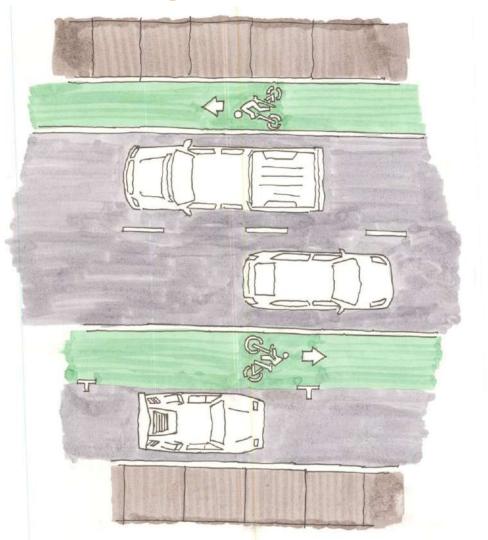


On-Street Parking with Tree Wells

Principle

Solution



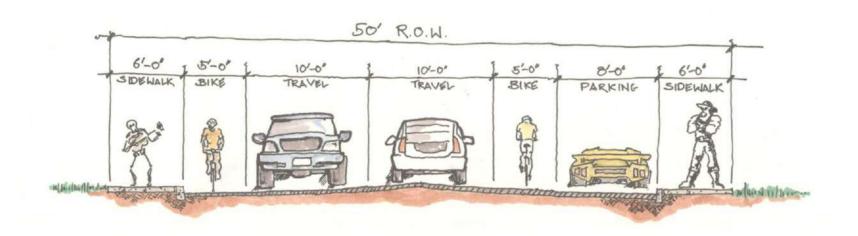


On-street
Parallel Parking
on one side of
Poʻipū Road
near Kōloa Town

Principle

Solution

7 ADDRESS Parking



PO'IPU ROAD AT MORTUARY

Principle

Solution



Principle

Solution



Principle

Solution



Principle

Solution



Best Practice: Multi-Use Path Humboldt County, CA

Principle

Solution



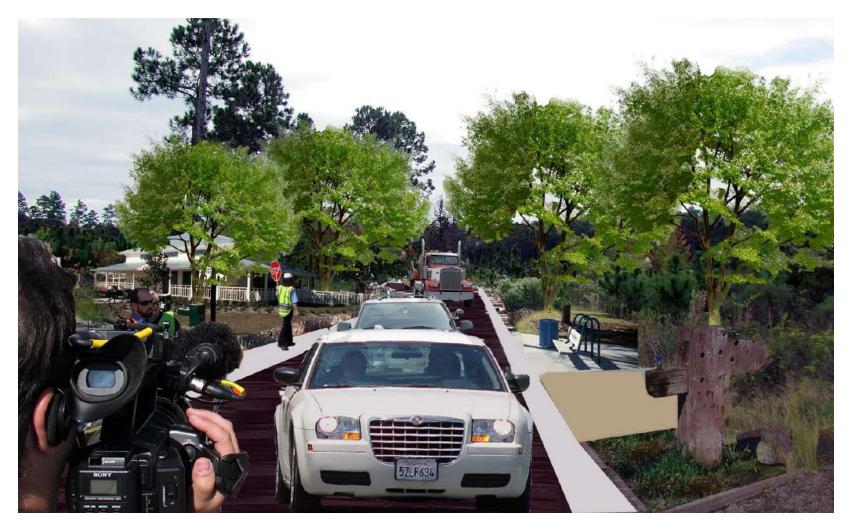
Principle

Solution



Principle

Solution



III. Next Steps

In progress:

- Complete striping of Po'ipū Road at the Kōloa School and the Po'ipū/Waikomo Road intersection, plans are to extend the bike lane and pedestrian walkway as far as possible.
- Po'ipū Road "no parking" resolutions at Kiahuna Plantation Drive, Koa Kea entrance, and Keleka Road are in process of being presented at the County Council to be approved.

III. Next Steps

Short term (within 1 year):

- Complete striping of Waikomo Road pedestrian walkway.
- Apply for Safe Routes to School grants for sidewalk improvements in Koloa Town
- Revise directional signage at Kōloa Rd./Poʻipū Rd. intersection
- Striping revisions where feasible
- Develop request-for-proposal for design/engineering of Po'ipū Rd. corridor

III. Next Steps

Mid-term to Long-term:

- Consultants to complete PS&E Plans, Specifications and Estimates, which includes the NEPA - environmental needs for Hawaii Dept. of Transportation check list to get project approved on the Statewide Transportation Improvement Program (STIP) for funding.
- Program the Construction on the STIP
- Detail plan for on-going maintenance
- Bus shelters will be installed as funding is available.

IV. Acknowledgements

We would like to extend a special Mahalo to all who participated in the Poʻipū Community Design Workshop. The commitment demonstrated by the individuals and organizations is evidence that improving the walkability and livability of the community through a better built environment is a priority.

County of Kaua'i Department of Public Works & Department of Planning

Get Fit Kauai

Kaua'i's Built Environment Task Force

Kōloa Fire Station Team

Po'ipū Beach Resort Association

Kōloa School and Community Association

Hawaiian Cultural Group

Landowners

Property Owners

Poʻipū and Kōloa Residents





Lee Steinmetz County of Kaua'i Transportation Planner Isteinmetz@kauai.gov 808-241-4978



Bev Brody Get Fit Kaua'li Health & Built Environment Project Facilitator bbrody1@hawaii.rr.com 808-828-2027

Walkable and Livable Communities Institute, Inc.

Samantha Thomas
Project Coordinator
www.walklive.org
Samantha@walklive.org
360-385-3421